C61.30: H31

Hawaii Exports





U.S. DEPARTMENT OF COMMERCE International Trade Administration Washington, D.C. 20230 August 1984

EXPORTS...

... their importance to the United States economy

Exports play an important role in our economy and in the increasingly interdependent world economy. The United States is the world's largest exporter— currently selling \$200 billion of U.S. goods abroad— and is the world's largest economy. With 5 percent of the world's population, our country produces 24 percent of the world's industrial goods.

Exporting provides a broader marketing base for U.S. firms and is considerably more important than many Americans realize. Exports currently account for 5 million jobs in the United States. On average, 25,000 jobs are generated per \$1 billion of U.S. merchandise exports.

Many jobs depend on exports

Employment generated by exports is much greater than the number actually employed in producing the final products shipped abroad. Exports create a large demand for employment that spreads throughout our economy. This includes all the jobs needed to produce goods and services supplied to export producers, the jobs needed by the export producers to produce exports, and the jobs needed to move products to our ports or borders for transport to other countries.

Most of the export-related jobs are in manufacturing and services. According to the latest estimates, 49 percent of the jobs are in manufacturing, 37 percent in services, and 14 percent in production of nonmanufactured goods. The importance of export employment varies among the industries. About one out of every eight Americans currently employed in manufacturing is dependent on exports of manufactured goods. About one out of every six jobs producing nonmanufactured goods and one out of 24 jobs in services are export-related.

Exports affect production and employment in all industries, not just in a few major export industries. For example, while the primary metals industries directly export about \$6 billion of their products annually, an additional \$21 billion of steel and other metals are exported in the form of American-made computers, aircraft, tractors, and other manufactured goods.

Exports are of great importance to America's farmers as well. They account for \$1 of every \$4 of farm sales. Likewise, many jobs in the coal mining and mineral industries, as well as a considerable number in the fishing industry, are dependent on overseas

sales. Exports also support employment in the trucking, rail transport, insurance, and other service industries.

Exports essential

But the basic importance of exports is that they are the principal means by which America pays for its purchases from foreign countries. The United States imports proportionately far less than other major countries, but imports have become increasingly important to the American standard of living and they have to be paid for. The other major industrial nations generally cover the cost of the goods they import by their exports. Merchandise exports and imports each account for an average of about 20 percent of the gross national product in that group of countries. American exports, however, were only 5.9 percent of GNP in 1983, while the ratio of imports to GNP stood at 7.8 percent. This gap between exports and imports is the trade deficit, which amounted to \$57.6 billion in 1983.

The strength of our exports means a great deal to America. Exports are important to all the 50 states, and each state plays a significant role in meeting the need to export more. This report helps explain that role and shows the significance of exports in relation to employment and production.

CONTENTS

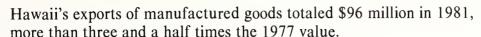
Inside

front Importance of Exports to U.S. Economy cover

- 1 Hawaii's Export Highlights
- 2 Explanatory Notes
- 3 Table 1 Hawaii's Manufactured Exports, Production, and Employment, 1981
- 4 Table 2 Growth in Hawaii's Manufactured Exports
- 5 Table 3 U.S. Manufactured Exports by State
- 6, 7 Map U.S. Manufactured Exports by State
 - 8 Table 4 Hawaii's Agricultural Exports
 - 9 Table 5 U.S. Agricultural Exports by State
- 10 Table 6 Hawaii's Manufactured Production, Export-Related Manufactures and Employment, 1981
- 11 Table 7 Growth in Hawaii's Export-Related Manufactures
- 12 Table 8 Export-Related Manufactures and Employment by State

Inside Chart - Exports of U.S. Manufacturing back Industries Related to Domestic Production

Hawaii Export Highlights



An estimated 600 jobs in Hawaii were directly related to producing manufactured exports in 1981. An additional 600 jobs were required to produce materials and parts for incorporation in products exported from the 50 states. Thus, 1,200 jobs in Hawaii were dependent on exports of manufactured goods—about one of every twenty-two manufacturing jobs in the state.

Hawaii's share of U.S. agricultural exports totaled \$41 million in FY 1982. The state was the second leading U.S. exporter of nuts. In Hawaii's farm sales, \$1 out of every \$12 came from exports.

Manufactured exports grew strongly

Hawaii's exports of manufactures totaled \$96 million in 1981. That total compared with 1977 exports from the island state of \$26 million. The state ranked 47th nationally in sales of manufactured products to foreign countries in 1981. Export growth outpaced the 84 percent increase in Hawaii's production of manufactures.

The principal goods shipped abroad were food products and petroleum products. The export values of the petroleum and several other industries were not published for disclosure reasons. Other exports from the state included products of the apparel and textile, chemicals, printing and publishing, and fabricated metals industries.

Food products were a leading export in 1981, valued at \$38 million and 3.3 percent of the value of total food manufactures production. Overseas sales, quadruple the 1977 amount, grew much faster than production and contributed to 8 percent of production growth over the 5 year period. About 400 jobs were directly related to these exports.

Exports of apparel/textile products and chemicals were valued at \$2 million and \$1 million respectively in 1981. Printing and publishing and fabricated metal products exports were each valued at \$400,000.

The state's economy benefits from goods produced not only for direct shipment to foreign destinations but also from those for ultimate export through other states. Tables 6 to 8 show Hawaii's export figures for manufactures including the output of supplying establishments that furnish parts and materials to manufacturers producing goods in final form for export. Such indirect exports are particularly important in industries whose products require further processing such as chemicals and fabricated metal products, and also in those industries whose products constitute components and parts for assembly into machinery, electric equipment, and transportation equipment.

The Census Bureau has estimated that the full impact of U.S. exports on Hawaii's manufacturing activity was 6.3 percent rather than the 2.7 percent attributable to direct exports as shown in table 3. Thus, of the expanded manufacturing output generated between 1977 and 1981, 10 percent—or \$1 out of every \$10—was due to export-related shipments.

Fruits led agricultural exports

Hawaii's share of U.S. agricultural exports in FY 1982 including some manufactures of farm origin totaled an estimated \$41 million. Fruit products valued at \$28 million accounted for most of the farm exports. The state had foreign shipments of nuts valued at \$8 million. Hawaii ranked seventh nationally in exports of fruit and second to California in exports of nuts. Other farm exports valued at approximately \$1 million each included meats, hides/skins, fats and oils, and poultry.

The export contribution to each dollar of the state's farm sales amounted to 8 cents in FY 1982.

(continued on back cover)

Explanatory Notes

State export statistics presented in this report are estimates, in contrast to national export statistics, which are compiled from export documents prepared at the time goods leave the country. This note considers the reasons for, and consequences of, that difference.

Export estimates for each state are needed in order to measure the relative impact throughout our nation of changes in goods sold abroad. National export data are compiled each month in detail by types of goods sold and summarized in large commodity aggregates and overall totals—but in order to measure exports by each state of origin, which is not identified in shippers' export documents, special studies are necessary.

This report—one in a series of reports for each state—brings together state export estimates from studies by various U.S. Government agencies on manufactured goods, agricultural products, fishery products, and selected minerals. Overall totals for all goods exported from each state are not shown since these studies differ in methodology, frequency, export valuation, and U.S. geographic coverage, and the manufactures and agricultural studies somewhat overlap the products covered.

Manufactured Exports in this report relate to manufactures as defined in the Standard Industrial Classification (SIC) and include manufactured food, mineral fuel products, fats, oils, firearms, and ammunition not typically part of the Standard International Trade Classification (SITC) definition of manufactures. For the United States as a whole, exports of these additional products totaled \$28.5 billion in 1981. Exports, normally valued at the port of exportation, are adjusted to f.o.b. plant values to make accurate comparisons with production (shipments) data.

The state estimates for manufactured goods are based on surveys of manufacturers conducted by the Industry Division of the Bureau of the Census. These studies are for selected years; cover the continental United States, Alaska, and Hawaii; and present data classified by the 20 major SIC industry groups (2-digit). Tables 1 to 3 show

the value of state exports and state production, and the number of workers employed in manufacturing plants producing the finished goods for direct shipment to foreign destinations.

State economies also benefit from manufactured goods produced for ultimate export through other states, and from jobs related to manufactured exports which are generated in nonmanufacturing industries. In the table below, percentages show the full impact of export-related manufactures on state employment. Tables 6 to 8 show the percent of production and the value of state exportrelated manufactures—direct exports plus indirect exports or the value of materials and parts incorporated in products exported from elsewhere in the nation—and the number of state export-related workers employed in manufacturing plants producing these goods. Table 8 also shows the total number of workers related to manufactured exports in manufacturing plus the number in nonmanufacturing industries supporting manufactured exports by supplying materials or services such as forwarding, warehousing, transport, and other foreign trade-related services.

Agricultural Exports relate to food products other than those from marine sources, unmanufactured tobacco, and other agricultural products simply processed such as fibers, raw hides and skins, fats and oils, wine and beverages other than distilled types.

The state estimates for agricultural exports are from studies prepared by the U.S. Department of Agriculture. Exports reflect shares in national exports according to each state's production and sales data. Export values were obtained by multiplying each state's share of farm production by commodity times the total export value for each of the respective commodities. These annual studies are for fiscal years ending September 30 and for all states except Alaska, and show data classified by 18 commodity groups. Tables 4 and 5 show the value of state exports and the percent of farm sales.

Other Exports—Fishery products, various minerals, and fuel export estimates shown in the Highlights on page 1 for selected states are from studies prepared by the National Oceanic and Atmospheric Administration (NOAA), the U.S. Department of Interior, and the U.S. Department of Energy, respectively. Exports generally reflect shares in national exports according to state production.

Annual Exports and Employment Related to Manufactured Exports

	Manufactured exports	Manufacturin	g employment	Total employment, including nonmanufacturing employment		
	(million dollars)	(thousands)	Percent of manufacturing employment	(thousands)	Percent of civilian employment	
Hawaii *						
1976	51	(¹)		(¹)		
1977	26	0.7	2.8	2.7	0.7	
1980	71	1.1	4.1	6.1	1.7	
1981	96	1.2	4.5	6.4	1.5	
United States						
1976	83,098	2,125.4	11.3	3,452.1	4.0	
1977	85,796	1,990.2	10.2	3,258.2	3.6	
1980	151,216	2,639.3	12.8	4,808.3	4.8	
1981	164,283	2,603.8	12.8	4,794.0	4.7	

^{*} Hawaii's export-related manufactures were as follows in million dollars: 1976, not available; 1977, 66; 1980, 193; and 1981, 232. About 10 percent of the increase in Hawaii's manufacturing production from 1977 to 1981 was generated by growth in export-related manufactures. ¹ Not available. -- Not applicable.

Hawaii Manufactured Exports, Production, and Employment, 1981

- Hawaii's leading manufactured exports were food products, petroleum products, apparel, and chemicals.
- The food products industry accounted for 40 percent of Hawaii's total exports of manufactures.

Industry group	Production (million	Estimated exports dollars)	Exports as percent of production	Estimated employment related to exports	Employment related to exports as percent of total employment	
Total ¹	3,626	96	2.7	0.6	2.3	
Food and kindred products	1,170	38	3.3	0.4	3.2	
Petroleum and coal products	(¹)	(1)		(¹)		
Apparel and textile products	127	2	1.6	(²)		
Chemicals and allied products	63	1	1.3	(²)		
Printing and publishing	221	(3)	0.2	(²)		
Fabricated metal products	75	(3)	0.5	(²)		
Machinery, except electric	6	(3)	6.7	(²)		
Transportation equipment	30	(3)	0.3	(²)		
Lumber and wood products	26	(3)	0.4	(²)		
Rubber and plastic products	2	(3)		(²)		
Misc. manufacturing industries	(¹)	(¹)		(¹)		
Stone, clay, and glass products	(¹)	(1)		(¹)		
Leather and leather products	(1)	(¹)		(¹)		
Furniture and fixtures	(¹)	(1)		(1)		
Textile mill products	(1)	(')		(¹)		
Paper and allied products	(¹)	(')		(1)		
Primary metal industries	(¹)	(1)		(1)		
Electric and electronic equipment	(¹)	(1)		(1)		
Instruments and related products	(1)	(1)		(¹)		

¹ Total includes estimated exports, production values, and employment numbers which are withheld for certain industry groups to avoid disclosure of individual companies' data. ² Less than 50 employees. ³ Less than \$500,000. -- Not applicable.

TABLE 2

Hawaii Growth in Manufactured Exports

- 1981, Hawaii's manufactured exports totaled \$96 million, over three and a half times the 1977 value.
- Two-fifths of the increase stemmed from growth in food products exports.

			xport value illion dollar	Percent increase from 1977 to 1981		Export increase as percent of production		
Industry group	1960	1969	1972	1977	1981	Exports	Pro- duction	increase 1977-81
Total ¹	17	10-25 2	25-49	26	96	265	84	4
Food and kindred products	11	10-25 1	0-24	10	38	297	46	8
Petroleum and coal products	(²)	1–5	(²)	(²)	(²)			
Apparel and textile products	(³)	0-1	(²)	1	2	54	63	1
Chemicals and allied products	(²)	(³)	(²)	(²)	1			
Printing and publishing	(²)	0-1	(²)	(³)	(³)	300	77	(4)
Fabricated metal products	(²)	1–5	(²)	(²)	(³)			
Machinery, except electric	2	0-1	(²)	(²)	(³)			
Transportation equipment	(²)	(²)	(²)	(²)	(³)			
Lumber and wood products	(³)	0-1	(²)	(^{3 5})	(³)			
Rubber and plastic products	(²)	(³)	(²)	(²)	(³)			
Misc. manufacturing industries	(²)	0-1	(²)	(^{3 5})	(²)			
Stone, clay, and glass products	(²)	0-1	(²)	(^{3 5})	(²)			
Leather and leather products	(²)	0-1	(²)	(^{3 5})	(²)			
Furniture and fixtures	(²)	(³)	(²)	(^{3 5})	(²)			
Textile mill products	(²)	(³)	(²)	(²)	(²)			
Paper and allied products	(²)	(³)	(²)	(²)	(²)			
Primary metal industries	(²)	(³)	(²)	(²)	(²)			
Electric and electronic equipment	(²)	(²)	(²)	(²)	(²)			
Instruments and related products	(²)	(²)	(²)	(²)	(²)			

¹ Totals for all years include values for industry groups which are not shown separately. ² Not available. ³ Less than \$500,000. ⁴ Less than one-half of one percent. ⁵ 1976. -- Not applicable.

United States Manufactured Exports by State

- California, Texas, Illinois, Ohio, and Michigan continued to be the top five exporters of manufactures in 1981.
- Manufactured exports totaled \$2 billion or more for almost half of the 50 states.

	Rank as			rt value a dollars)	Percent increase from	Estimated exports as percent of	Employment related to exports as percent of	
State	exporter in 1981	1969	1972	1977	1981	1977 to 1981	state production	state employment
U.S., total		29,210	36,608	85,796	164,283	91	8.1	7.3
California	1	2,721	2,809	9,116	18,775	106	9.8	9.7
Texas	2	1,468	1,982	5,386	11,687	117	6.5	7.2
Illinois	3	2,343	2,902	6,313	10,369	64	8.2	6.9
Ohio	4	2,338	3,054	6,028	10,353	72	8.5	7.9
Michigan	5	2,613	3,522	6,937	10,275	48	9.8	7.6
New York	6 7	2,296 954	2,795	5,833 2,805	10,155 9,023	74 222	8.5 24.5	6.5 21.9
Washington Pennsylvania	8	1,902	1,781 2,351	4,714	8,129	72	7.1	6.9
Massachusetts	9	818	920	2,310	5,096	121	10.6	8.6
Indiana	10	998	1,404	2,942	5,008	70	7.1	7.0
North Carolina	11	739	705	2,291	4,682	104	7.5	5.0
New Jersey	12	1,114	1,328	2,881	4,469	55	6.1	5.8
Wisconsin	13	785 396	916	2,132	4,031 3,725	89 149	7.4	7.4 6.6
Louisiana Florida	14 15	426	541 567	1,494 1,583	3,725	112	6.4 9.1	6.6
Virginia	16	581	716	1,573	3,344	113	9.3	6.7
Tennessee	17	472	679	1,501	3,285	119	8.0	5.6
Connecticut	18	659	848	1,662	3,083	85	10.2	8.2
Missouri	19	634	577	1,682	3,013	79	7.3	6.2
Minnesota	20	492	654	1,605	2,730	70	7.7	7.1
lowa	21	412	590	1,578	2,705	71 76	8.1	8.2
Georgia South Carolina	22 23	428 254	580 312	1,419 1,150	2,505 2,230	76 94	5.3 8.0	4.8 5.5
Alabama	24	318	287	895	1,936	116	6.3	5.5
Kentucky	25	345	451	1,354	1,935	43	6.4	5.1
Oregon	26	240	237	906	1,724	90	9.2	9.0
Arizona	27	157	266	680	1,639	141	13.1	15.4
Arkansas	28	204	320	626	1,604	156	8.7	6.1
Kansas	29	241	283	689	1,517	120	5.7	7.6
Oklahoma	30	158	252	639	1,515	137	6.0	7.3
Colorado	31	157	245	668	1,283	92	7.5 5.7	8.6
Maryland West Virginia	32 33	362 235	314 295	634 438	1,219 1,199	92 174	5.7 10.0	5.3 6.1
Mississippi	34	181	236	718	1,159	61	5.9	4.6
Nebraska	35	100	134	328	945	188	6.1	6.3
Alaska	36	33-48	(1)	374	653	75	33.4	32.5
New Hampshire	37	74	103	290	637	120	8.8	8.9
Rhode Island	38	110	107	297	586	98	7.7	6.8
Maine	39	77	83	232	498	114	5.5	5.6
Idaho	40	35	27	246	460	87	9.2	6.8
Utah Delaware	41 42	48 124	127 128	173 155	449 375	159 142	4.6 4.1	5.8 3.7
Vermont	43	52	52	183	229	25	6.3	6.0
South Dakota	44	13	(1)	95	185	96	6.3	4.5
North Dakota	45	7	14	73	156	114	6.6	7.9
Nevada	46	10-25	7	31	105	238	6.8	5.1
Hawaii	47	10-25	(¹)	26	96	265	2.7	2.3
New Mexico	48	16	18	37	64	73	2.0	0.9
Montana	49	14	(¹) (¹)	59	61	4	1.4	1.8
Wyoming	50	1–5	(¹)	6	18	192	0.6	

¹ U.S. total includes values withheld to avoid disclosure for individual companies or because estimate did not meet publication standards. -- Not applicable.

U.S. Manufactured **Exports by State**

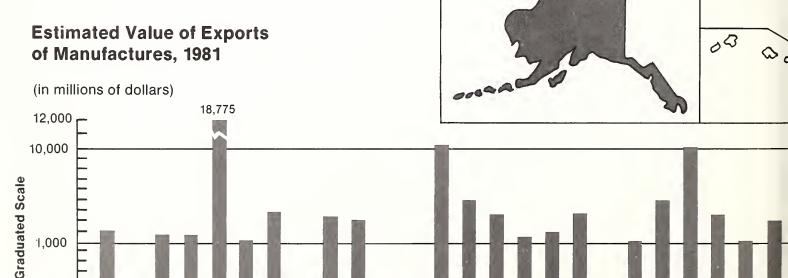
• All 50 states shared in U.S. exports of manufactures.

• Exports accounted for varying percentages of domestic production

500

100

HARAGE OF THE TAR THE KILJING STOR A FOR



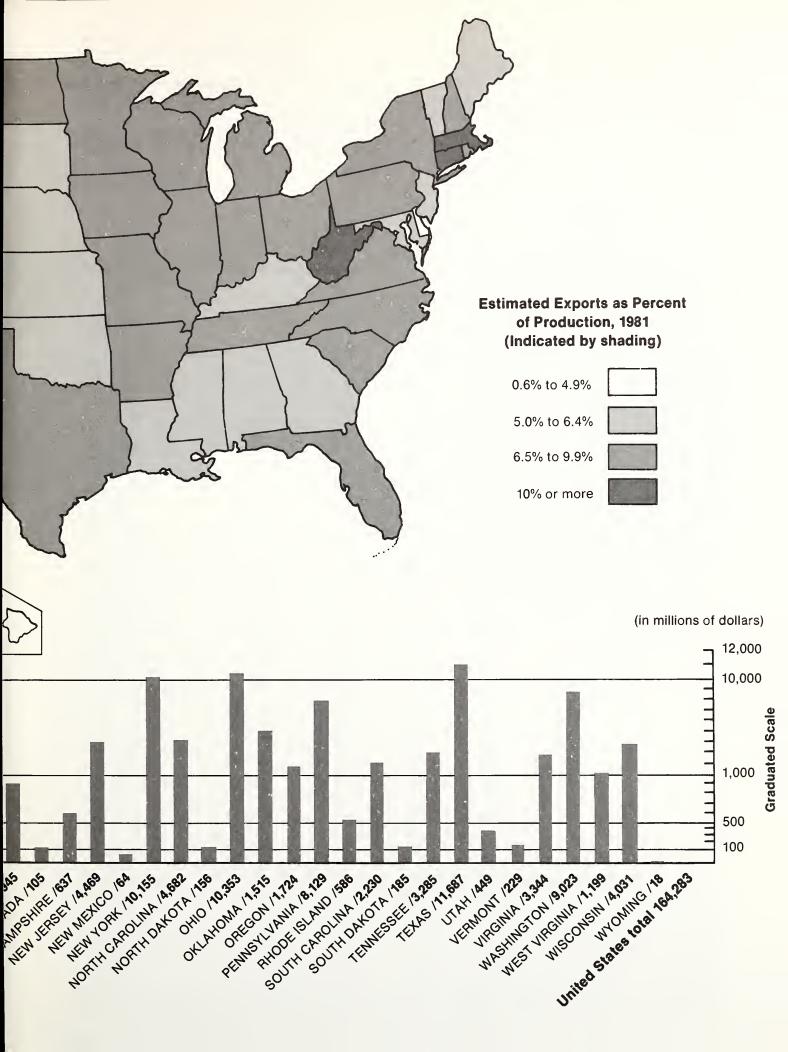
USE 1 S JUNE OF A REPORT A TO A LAND TO THE SOLIT OF THE

DOWNSOURI BOTS

MASSACHUSETTS SOS

AKENTUCK TANA MANE AND A

VANSAS 11517



Hawaii Agricultural Exports*

- In fiscal 1982, Hawaii's share of U.S. agricultural exports totaled \$41 million.
- Fruits and preparations were the leading agricultural exports from the state.

		Estimated exports (million dollars)					
Product	FY 1968	FY 1972	FY 1977	FY 1982	1977 to 1982		
Total	16	17	59	41	-30		
Fruits and preparations	14	15	50	28	-44		
Nuts and preparations	(1)	(1)	(1)	8			
Meats and products	(2)	(2)	1	1	86		
Hides and skins	(2)	(2)	1	1	43		
Fats, oils, and greases	(²)	(2)	1	1	29		
Poultry and products	(²)	(²)	(2)	1	75		
Vegetables and preparations	(²)	(²)	1	(2)	-56		
Other products	1	1	5	1	-85		

^{*} Exports reflect shares in national exports according to each state's production.

¹ Not available. ² Less than \$500,000. -- Not applicable.

United States Agricultural Exports* by State

- Exports accounted for over one fourth of total U.S. farm sales in FY 1982 and for more than 25 percent of sales from 20 of the states.
- Illinois, Iowa, California, and Texas each exported more than \$2 billion of farm products.

	Rank as		Expor (million		Percent increase FY 1977	Exports as percent of	
State	exporter FY 1982	FY 1968	FY 1972	FY 1977	FY 1982	to FY 1982	farm sales¹ FY 1982
U.S., total		²6,315	8,050	24,013	²39,094	63	27.5
Illinois Iowa California Texas Minnesota Nebraska Kansas Indiana Missouri North Dakota	1 2 3 4 5 6 7 8 9	585 392 413 551 226 230 296 252 174 166	758 620 592 456 347 283 365 384 317 250	2,539 2,042 1,774 1,761 918 988 998 1,319 766 554	3,306 3,026 2,854 2,569 1,883 1,808 1,628 1,559 1,404 1,326	30 48 61 46 105 83 63 18 83 149	43.3 28.9 20.6 25.4 29.4 26.4 29.3 36.6 34.4 50.7
Arkansas North Carolina Ohio Washington Mississippi Oklahoma Michigan Kentucky Georgia South Dakota	11 12 13 14 15 16 17 18 19 20	255 366 194 152 164 115 92 69 132	352 420 262 163 230 108 107 132 173	907 964 957 414 648 410 318 473 476 210	1,283 1,247 1,052 946 787 781 753 731 706 655	41 29 10 129 21 90 137 55 48 212	39.2 29.8 31.6 33.0 35.8 26.9 28.2 24.7 21.7 23.8
Louisiana Colorado Wisconsin Tennessee Florida Montana Idaho Alabama Oregon South Carolina	21 22 23 24 25 26 27 28 29 30	155 63 59 102 101 107 66 56 49	191 98 104 143 148 101 91 102 65 135	543 239 263 390 390 322 262 332 182 312	626 612 592 590 586 559 551 481 423 407	15 156 125 51 50 74 110 45 132	37.4 19.6 11.9 31.0 14.2 37.9 24.6 21.7 24.1 35.6
Arizona Virginia Pennsylvania New York Maryland New Mexico Wyoming Utah Delaware New Jersey	31 32 33 34 35 36 37 38 39 40	61 80 65 63 35 24 8 14 15	70 92 42 44 41 28 16 19 14	285 225 137 109 136 82 38 55 53 38	404 384 246 214 188 121 95 80 73 65	42 71 79 96 39 48 154 45 38 72	23.3 23.5 8.3 8.2 17.9 13.6 15.8 14.7 18.5 13.9
Hawaii Maine Massachusetts Nevada West Virginia Connecticut Vermont New Hampshire Rhode Island Alaska	41 42 43 44 45 46 47 48 49 50	16 6 5 2 6 8 2 1 (3) (4)	17 5 6 4 12 4 1 (³)	59 28 12 10 11 22 3 2 1	41 28 24 22 22 15 8 4 1	-30 1 105 118 97 -32 138 89 11	8.4 6.5 7.6 10.5 9.5 4.6 1.9 3.6 3.1

^{*} Exports reflect shares in national exports according to each state's production. ¹ Commercial sales plus net Commodity Credit Corporation loans and purchases under price support programs. ² Includes exports that were not apportioned among states. ³ Less than \$500,000. ⁴ Not available. ⁵ Less than \$100,000. -- Not applicable.

TABLE 6

Hawaii Manufactured Production, Export-Related Manufactures and Employment, 1981

- About 1 out of 22 Hawaii jobs in manufacturing are due to exports.
- The food products industry accounted for 50 percent of Hawaii's export-related jobs in manufacturing.

Industry group	Production (millior	Export- related manufactures i dollars)	Export related as percent of production	Employment for export- related manufactures (thousands)	Employment for export related as percent of total employment	
Total ¹	3,626	232	6.3	1.2	4.5	
Food and kindred products	1,170	62	5.3	0.6	4.8	
Chemicals and allied products	63	10	15.6	(²)	(³)	
Fabricated metal products	75	4	5.7	(²)	(³)	
Apparel and textile products	127	4	2.7	0.1	1.8	
Printing and publishing	221	4	1.5	(²)	(³)	
Lumber and wood products	26	2	7.2	(²)	(³)	
Machinery, except electric	6	1	14.9	(²)	(³)	
Rubber and plastic products	2	(4)	5.8	(2)	(³)	
Transportation equipment	30	(4)	1.3	(2)	(³)	
Petroleum and coal products	(1)	(1)		(¹)		
Misc. manufacturing industries	(¹)	(1)		(1)		
Stone, clay, and glass products	(¹)	(¹)		(1)		
Leather and leather products	(1)	(¹)		(¹)		
Furniture and fixtures	(¹)	(¹)		(¹)		
Textile mill products	(1)	(1)		(')		
Paper and allied products	(1)	(1)		(1)		
Primary metal industries	(¹)	(1)		(1)		
Electric and electronic equipment	(¹)	(¹)		(1)		
Instruments and related products	(1)	(¹)		(¹)		

¹ Total includes estimated production and export-related values, and employment numbers which are withheld for certain industry groups to avoid disclosure of individual companies' data. ² Less than 50 employees. ³ Less than one-half of one percent. ⁴ Less than \$500,000. -- Not applicable.

TABLE 7

Hawaii Growth in Export-Related Manufactures

- The 252 percent growth in the value of export-related manufactures from 1977 to 1981 was much faster than the rate of expansion in production.
- About one tenth of the increase in food products output was generated by growth in export-related manufactures.

	Export-related r (million d		Percent from 197	Export-related increase as percent of		
Industry group	1977	1981	Export related	Pro- duction	production increase 1977-81	
Total	66	232	252	84	10	
Food and kindred products	20	62	203	46	11	
Chemicals and allied products	(1)	10				
Fabricated metal products	(1)	4				
Apparel and textile products	2	4	59	63	3	
Printing and publishing	1	4	150	77	2	
Lumber and wood products	(1)	2				
Machinery, except electric	(1)	1				
Rubber and plastic products	(1)	(2)				
Transportation equipment	(1)	(²)				
Petroleum and coal products	(1)	(¹)				
Misc. manufacturing industries	(1)	(¹)				
Stone, clay, and glass products	(1)	(¹)		* =		
Leather and leather products	(1)	(¹)				
Furniture and fixtures	(1)	(1)				
Textile mill products	(1)	(¹)				
Paper and allied products	(1)	(¹)				
Primary metal industries	(1)	(¹)				
Electric and electronic equipment	(1)	(1)				
Instruments and related products	(1)	(1)				

¹ Not available. ² Less than \$500,000. -- Not applicable.

Note: Totals include values for industry groups which are not shown separately.

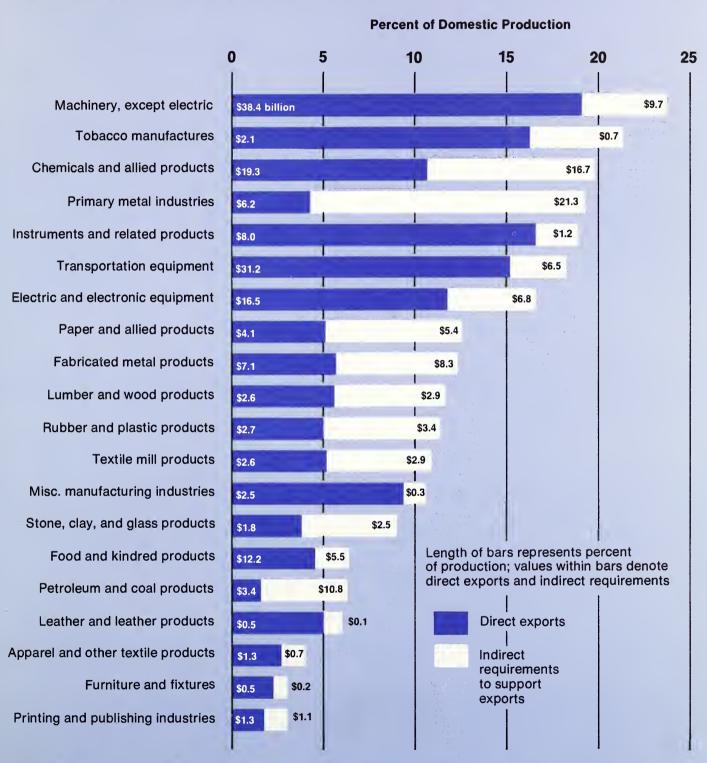
United States Export-Related Manufactures and Employment by State

- California, New York, Texas, Pennsylvania, and Ohio led the states with the largest number of jobs related to manufactured exports.
- Employment rates were highest in Connecticut, Washington, Ohio, and Delaware for jobs in all industries related to manufactured exports.

			Export-related	manufactures	3	Employment	Total employment related to		
State	Rank as export related in 1981	1977 (million	1981 dollars)	Percent increase from 1977 to 1981	Percent of state production 1981	for export related as percent of manufacturing employment	manufactur (thousands)	Percent of civilian employment	
U.S., total		142,404	271,703	91	13.4	12.8	4,794.0	4.7	
California	1	13,319	27,399	106	14.2	14.5	526.5	4.7	
Texas	2	9,196	22,651	146	12.5	12.7	285.5	4.2	
Ohio	3	11,047	18,132	64	14.8	14.7	284.0	6.2	
Illinois	4	10,216	17,039	67	13.4	12.9	275.4	5.4	
Michigan	5	10,975	15,512	41	14.7	14.6	218.9	5.7	
Pennsylvania	6	8,955	15,485	73	13.4	13.2	284.1	5.5	
New York	7	8,894	15,260	72	12.7	11.4	372.0	4.9	
Washington	8	3,716	10,773	190	29.2	26.3	121.9	6.5	
Indiana	9	5,784	9,692	68	13.7	13.3	140.3	5.8	
New Jersey	10	4,880	8,204	68	11.2	11.9	175.0	5.4	
North Carolina	11	3,883	7,808	101	12.5	9.8	150.3	5.5	
Massachusetts	12	3,498	7,425	112	15.4	14.2	155.1	5.6	
Louisiana	13	2,734	7,415	171	12.8	11.9	63.7	3.6	
Wisconsin	14	3,607	6,590	83	12.0	13.0	114.9	5.3	
Tennessee	15	2,716	5,567	105	13.4	10.3	102.5	5.3	
Virginia	16	2,480	5,163	108	14.3	11.1	88.3	3.6	
Georgia	17	2,723	4,981	83	10.5	9.7	106.1	4.3	
Florida	18	2,294	4,965	116	13.4	10.8	129.9	3.0	
Connecticut	19	2,687	4,886	82	16.2	14.9	103.5	7.1	
Missouri	20	2,834	4,861	72	11.7	11.1	94.7	4.3	
South Carolina	21	2,117	4,194	98	15.0	11.7	76.4	5.5	
Minnesota	22	2,298	4,135	80	11.6	12.4	90.9	4.5	
Alabama	23	2,061	4,024	95	13.1	11.0	71.1	4.6	
Iowa	24	2,228	3,940	77	11.8	12.0	60.0	4.5	
Kentucky	25	2,367	3,751	58	12.3	10.6	58.7	3.9	
Oregon	26	1,498	2,801	87	14.8	14.5	58.7	4.7	
Oklahoma	27	1,044	2,752	164	10.8	12.4	54.5	4.0	
Kansas	28	1,158	2,678	131	10.1	12.4	47.2	4.3	
Arkansas	29	1,086	2,524	132	13.6	10.5	40.8	4.3	
Arizona	30	1,050	2,461	134	19.7	20.5	53.7	4.4	
West Virginia	31	1,108	2,361	113	19.7	14.6	30.7	4.2	
Maryland	32	1,327	2,348	77	11.0	10.8	53.8	2.6	
Mississippi	33	1,111	2,066	86	10.4	8.2	36.9	3.7	
Colorado	34		1,922	97	11.1	12.7	49.4	3.3	
Nebraska	35	576	1,477	156	9.5	10.0	24.4	3.3	
Utah	36	416	1,050	153	10.6	10.3	20.5	3.3	
Rhode Island	37	540	1,018	88	13.4	12.0	24.9	5.8	
New Hampshire	38	455	994	119	13.6	14.1	24.3	5.5	
Maine	39	425	924	118	10.1	9.9	20.9	4.5	
Delaware	40	346	852	146	9.4	13.5	15.1	6.1	
ldaho	41	381	740	94	14.7	11.7	15.4	3.9	
Alaska	42	393	711	81	36.3	34.1	6.3	3.3	
Vermont	43	287	451	57	12.3	11.6	10.1	4.0	
Montana	44	182	327	80	7.6	7.5	7.9	2.2	
South Dakota	45	130	267	105	9.1	7.9	8.1	2.6	
North Dakota	46	98	242	147	10.2	11.1	7.8	2.6	
New Mexico	47	109	235	116	7.2	4.6	9.5	1.7	
Hawaii	48	66	232	252	6.3	4.5	6.4	1.5	
Nevada	49	70	205	192	13.1	10.1	5.4	1.2	
Wyoming	50	43	180	320	5.6	4.4	5.1	2.1	

Exports of U.S. Manufacturing Industries Related to Domestic Production, 1981

Direct Exports and Indirect Requirements to Support Exports



Note: Percentages shown for each industry indicate the total relative impact of exports on the domestic economy, including direct exports and goods shipped from domestic establishments for use as inputs in manufactured products exported from other establishments. Such inputs are included in domestic production industry totals.

Export employment rose

Hawaii's \$96 million worth of manufactured exports provided direct employment for an estimated 600 workers in 1981. Those jobs constituted 2.3 percent of the total manufacturing employment in the state. Two-thirds of the workers directly related to exports were concentrated in the food industry. Many of these workers were employed in preparing preserved fruits for export.

In addition, an estimated 600 jobs were required in the state to manufacture products used by other establishments in the United States as inputs for manufactures which were ultimately exported. Thus, an estimated 1,200 jobs in Hawaii were directly or indirectly dependent on exports of manufactured goods. This was 4.5 percent of all manufacturing employment in the state. From 1977 to 1981 the number of workers engaged in the production of manufactures rose 6 percent, while employment dependent on exports of manufactured goods climbed about 70 percent.

Three-fifths of the jobs dependent on manufactured exports were concentrated in the food products and the apparel/textile products industries.

An additional 5,200 jobs were generated in industries that supply materials and services supporting manufactured exports. More than three-fourths of these jobs were in forwarding, warehousing, transport, and other foreign trade-related services. Hawaii's total employment related to manufactured exports amounted to 6,400 in 1981 compared with 2,700 in 1977.

STATE EXPORT REPORTS

This report is one of a series of 50 prepared by the Office of Trade and Industry Information /Trade Information and Analysis, International Trade Administration on exports from the individual states. Data on manufactured and agricultural exports are presented in tabular form for a series of years. In addition, recent information is included on state exports of fish, fish products, and minerals. The statistics on 1981 exports of manufactures by state were taken from Origin of Exports of Manufactured Products, 1981 Annual Survey of Manufactures, M81 (AS)-5, issued by the Bureau of the Census in May 1983. That publication can be ordered from the Data User Services Division, Customer

Services (Publications), Bureau of the Census, Washington, D.C. 20233, or from any U.S. Department of Commerce District Office for \$2.75 per copy. Data for earlier years were taken from similar Census reports now out of print.

The information on state shares of agricultural exports was taken from various issues of Foreign Agricultural Trade of the United States published by the U.S. Department of Agriculture. Special compilations on exports of minerals and fuels by state were provided by the Bureau of the Mines, U.S. Department of Interior, and by the Energy Information Administration, U.S. Department of Energy, and on fish and fishery products by National Oceanic and Atmospheric Administration, U.S. Department of Commerce.



